

## TIME CONTROLS WITH ENHANCED TIMING RANGE

### ABSTRACT OF THE DISCLOSURE

A time control unit having both a time base dial that allows the user to set the cycle time duration and a duty cycle dial that allows the user to set the percentage of time a load connected to the time control unit is activated during each cycle time. The time base dial includes a series of discrete time base settings that increase non-linearly from a minimum setting to a maximum setting. The duty cycle dial also includes a series of discrete duty cycle settings ranging between a maximum and a minimum duty cycle value. The amount of increase in the percentage of the cycle time between successive duty cycle settings is smaller near the minimum (0%) and maximum (100%) settings and larger near the midpoint between the minimum and the maximum settings such that the duty cycle dial has greater resolution near the maximum and minimum settings.